Ministry of Higher Education and Scientific Research
Scientific Supervision and Evaluation Authority
Quality Assurance and Academic Accreditation Directorate
Accreditation Department

Academic Program

University: Al-Mustaqbal University
College: College of Health and Medical Technologies
Academic Department: Kidney Dialysis Techniques
File Completion Date: June 24, 2025

Name of Head of Department: Prof. Dr. Younis Abd Al-Ridha Al-Khafaji
Signatures: **Date:**

Name of Scientific Assistant: Assist. Prof. Dr. Ahmed Adnan Abd Al-Ameer

Signatures: **Date:**

File Verified by:
Quality Assurance and University Performance Division
Signature:
Name of Director of Quality Assurance and University Performance Division:
Date:

Endorsement by the Dean of the College
Assist. Prof. Dr. Zahraa Halim Al-Qaim

1. Program Vision
To graduate specialized medical cadres with a high degree of scientific competence to assist patients with renal failure and provide them with health and medical services. This will be achieved during their academic and practical training both inside and outside the college, within specialized units in hospitals. The vision aims to equip graduating students with the highest levels of academic and practical competence, qualifying them for employment in hospitals in general, and in dialysis units in particular.

1. Program Mission

The Department of **Kidney Dialysis Techniques** strives to be the leading department in Iraq and the region in graduating qualified medical cadres to work in specialized hospital units – namely dialysis units. This is achieved by providing the best therapeutic services utilizing global techniques, serving our beloved province, and meeting the demands of the job market.

2. Program Objectives

1. To prepare graduates who are scientifically and professionally qualified to efficiently and expertly operate and manage industrial kidney techniques.
2. To support and encourage innovative research in the fields of medical technologies related to kidney diseases and dialysis.
3. To provide advanced educational curricula that keep pace with the latest technologies and international standards in the treatment of renal failure.
4. To contribute to the improvement of healthcare services by cooperating with medical institutions and providing consultations and technical solutions for kidney disease problems.
5. To organize training programs and advanced educational courses for medical staff to enhance their skills and knowledge in the field of kidney dialysis techniques.
6. To apply quality assurance standards in education, research, and training to ensure the delivery of distinguished outcomes that meet labor market needs.
7. To support the development and design of new medical techniques and devices that improve the efficiency and safety of dialysis operations. **Program Outputs**

3. Program Accreditation

There is no program accreditation as the department is in its first academic year for the 2024-2025 academic year.

4. Other External Influences

There are no other external influences.

The subject	Weekly theoretical hours rate	Weekly practical hours rate	Total Weekly Hours Rate	Number of units	Language of instruction	Type of material	Type of requirement	Encoding Material
General Physiology	2	3	5	3	English	My major is compulsory	College Requirements	Mu05071101
General Histology	2	3	5	3	English	My major is compulsory	College Requirements	Mu05071102

General Biology	2	3	5	3	English	My major is compulsory	College Requirements	Mu05071103
General Chemistry	2	3	5	3	English	My major is compulsory	College Requirements	Mu05071104
Medical Terminology Principles	2	-	2	2	English	My major is compulsory	College Requirements	Mu05071105
Applications of Computers	1	1	2	2	English	Mandatory assistance	Aligned University Requirements	Mu05071106
English Language	2	-	2	2	English	Mandatory assistance	Aligned University Requirements	Mu05071107
Democracy and Human Rights	2	-	2	2	Arabic	Mandatory assistance	Aligned University Requirements	Mu05071108
Total 13	15		28	20				

Vocabulary of the first course subjects for the first stage

Vocabulary of the second course for the first level

The subject	Weekly theoretical hours rate	Weekly practical hours rate	Total Weekly Hours Rate	Number of units	Language of instruction	Type of material	Type of requirement	Encoding Material
Clinical Physiology	2	3	5	3	English	My major is compulsory	College Requirements	Mu05071201
General Anatomy	2	3	5	3	English	My major is compulsory	College Requirements	Mu05071202
Human Biology	2	3	5	3	English	My major is compulsory	College Requirements	Mu05071203
Fundamentals of	2	3	5	3	English	My major is compulsory	College Requirements	Mu05071204

Biochemistry								
Nursing Basics	**1**	**2**	**3**	**2**	**English**	**My major is compulsory**	**College Requirements**	**Mu05071205**
Physical Education	**1**	**2**	**2**	**2**	**English**	**Mandatory assistance**	**College Requirements**	**Mu05071206**
Arabic Language	**2**	**-**	**2**	**2**	**Arabic**	**Mandatory assistance**	**Aligned University Requirements**	**Mu05071207**
Total	**12**	**16**	**28**	**18**				

5. Program Structure for the Academic Year 2024-2025

* Notes	Percentage	Credit Hours	Number of Courses	Program Structure
Mandatory Mandatory Mandatory Mandatory	26.3 For all university (institution) requirements	**2** 2 2 2 2	Democracy and Human Rights English Language Computer Arabic Language Sports or French Language	**Aligned University Requirements**
Mandatory Mandatory Mandatory	**21.1** For College RequirementS	**2** **3** **3**	Medical Terminology Chemistry General Biology	**College Requirements**
Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory Mandatory	**52.6** For College Requirements	**3** **3** 3 3 3 3 3 2	• **Human Physiology** • **General Histology** • **Fundamentals of Biochemistry** • **General Anatomy** • **Human Biology** • **Clinical Physiology** • **Principles (Fundamentals) of Nursing**	**متطلبات القسم**
Summer Training			Summer Training for one month in the Teaching Hospital – Dialysis Unit	
Other				

- Notes may include whether the course is core or elective.

6. Program Description

Credit Hours		Course Name	Course Code	Academic Year / Level
عملي	نظري			السنة الدراسية الاولى
3	2	الفسلجة العامة	MU0571101	كورس الاول
3	2	الانسجة العامة	MU0571102	كورس الاول
3	2	علم الاحياء العام	MU0571103	كورس الاول
3	2	الكيمياء العامة	MU0571104	كورس الاول
	2	المصطلحات الطبية	MU0571105	كورس الاول
1	1	مبادىء وتطبيقات الحاسوب	MU0571106	كورس الاول
	2	اللغة الانكليزية	MU0571107	كورس الاول
	2	الديمقراطية وحقوق الانسان	MU0571108	كورس الاول

1. وصف البرنامج

الساعات المعتمدة		اسم المقرر أو المساق	رمز المقرر أو المساق	السنة / المستوى
عملي	نظري			السنة الدراسية الاولى
3	2	الفسلجة السريرية	MU0571201	الكورس الثاني
3	2	التشريح العام	MU0571202	الكورس الثاني
3	2	علم الاحياء البشري	MU0571203	الكورس الثاني
3	2	أساسيات الكيمياء الحياتية	MU0571204	الكورس الثاني
	2	مبادىء التمريض	MU0571205	الكورس الثاني
1	1	الرياضة	MU0571206	الكورس الثاني
	2	اللغة العربية	MU0571207	الكورس الثاني

2. Expected Program Learning Outcomes

Knowledge

Learning Outcome Statement 1 **A. Cognitive Outcomes** The graduate will be able to: 1. Explain the anatomical structure and physiological functions of the urinary system, particularly the kidneys. 2. Describe the physiological principles of blood purification and the mechanism of renal failure. 3. Differentiate between the types of kidney dialysis (hemodialysis and peritoneal) and the indications for each. 4. Define the components of a dialysis machine and its operational mechanism. 5. Identify the complications of kidney dialysis and how to	**Learning Outcome 1**

prevent and manage them clinically. 6. Determine the indications for initiating dialysis. 7. Distinguish between emergency situations and their appropriate management methods.	
Learning Outcome 2 **Skills** The graduate will be able to:	
1. Prepare the dialysis machine according to medical standards and perform pre-use operational tests. 2. Accurately set up patient bloodlines and efficiently supervise the dialysis session. 3. Monitor patient vital signs during the dialysis session and respond to any sudden changes. 4. Apply sterilization and infection control procedures during all dialysis stages. 5. Accurately document patient clinical data and session outcomes. 6. Identify causes of common errors and troubleshoot them. 7. Interact with the patient and provide reassurance. **Learning Outcome 3**	
Values	
1. Adhere to professional ethics and respect patient privacy and confidentiality. **2. Demonstrate patience and compassion when dealing with patients suffering from chronic renal failure.** **3. Assume full responsibility for ensuring patient safety during dialysis procedures.** **4. Collaborate effectively with doctors, nurses, and laboratory technicians as part of a multidisciplinary healthcare team.** **5. Actively seek to develop knowledge and skills related to kidney dialysis techniques and their complications.** **6. Adhere precisely to session schedules and appointments.** **7. Strictly comply with medical instructions and guidelines.**	
Learning Outcome 5	**Statement of Learning Outcome 5**

3. Teaching and Learning Strategies

The teaching and learning methods and strategies adopted for the general implementation of the program are:

- Clinical-Based Learning
- Simulation Training

- Case-Based Learning
- Cooperative Learning
- E-Learning
- Practical Exercises
- Feedback
- Interactive Lectures

4. Assessment Methods

The assessment methods implemented throughout all stages of the program, in general, are:

1. **Theoretical Tests:** Oral or written examinations to assess theoretical understanding.
2. **Clinical/Practical Assessment:** Observing and evaluating student performance in the dialysis unit.
3. **Simulation Tests:** Assessing skills using device simulation models.
4. **Self-Assessment:** The student evaluates their own performance after each session.
5. **Peer Assessment:** Colleagues evaluate each other during group work.
6. **Supervisor Reports:** Evaluation by trainers and field supervisors.
7. **Presentations:** Delivering specialized topics to peers and professors.
8. **Electronic Tests:** Using educational platforms for quick quizzes.
9. **Skills Logbook:** Recording all practical skills performed by the student.
10. **Participation in Discussion Sessions**

These can be summarized as: daily quizzes, mid-term and final exams, final examinations, in addition to reports within course materials, as well as participation in discussions and interactions during in-person lectures.

5. الهيئة التدريسية

أعضاء هيئة التدريس

الرتبة العلمية	التخصص		المتطلبات/المهارات الخاصة (ان وجدت)	اعداد الهيئة التدريسية	
	عام	خاص		ملاك	محاضر

أ.ديونس عبدالرضا الخفاجي	طب بيطري/احياءمجهرية	فيروسات ومناعة			ملاك	
2- أ.د.سعد عبدالرحيم الجبوري	طب بشري	انف واذن وحنجره				محاضر
3- أ.م.محمد أبو السعو ظاهر	علوم كيمياء	كيمياء حياتية				محاضر
4- د. طالب جيجان طاهر	طب عام	دبلوم جراحة العظام والكسور				محاضر
5- د. هدى عبدالحميد كاظم	طب عام	دبلوم طب السرة				محاضر
6- م.م. زينب علي محسن	علوم	بايلوجي - بيئة			ملاك	
7- د. رؤى نشأت عبد الامير الصفار	طب عام	بورد بطب الاسرة				محاضر
8- د. م. رانيه عبدالمحسن أبو النور	تمريض	تمريض كبار				محاضر
9- م.م. محمد سلام نوري العوادي	قانون	حقوق				محاضر
10- م.م.شمس عباس حسون	علوم حاسبات	تكنلوجيا المعلومات				محاضر
11- هاجر ابراهيم حسن	آداب / اللغة العربية	صوتيات				محاضر
12- م. م. علي يوسف	التربية الرياضه والعلوم البدنية	ساحة وميدان				محاضر
13- م.م. زينب حاكم موسى	أداب -إنكليزي	لغة انكليزية				محاضر

Professional Development

Orientation of New Faculty Members

Process Used for Orienting New, Visiting, Full-Time, and Part-Time Faculty Members (At the University and Department Kidney Dialysis Techniques)

First: At the Institutional (University) Level

1. **Official Reception and Administrative Registration:**
   - **Receive appointment/visit files.**
   - **Issue university IDs, activate email and system accounts.**
2. **General Orientation Session:**
   - **Introduction to the organizational structure, vision and mission, regulations, and general policies.**
   - **Tour of facilities (library, laboratories, technical support center, etc.).**
3. **Mandatory Workshops:**
   - **Professional ethics, faculty rights and duties.**
   - **Promotion systems, evaluation, and job discipline.**
4. **Connection to Institutional Support System:**
   - **Assign an academic or administrative mentor to each new member.**
   - **Include them in official communication channels (email, platforms, work teams).**

Second: At the Department (Industrial Kidney/Dialysis Techniques) Level

1. **Department-Specific Welcome Meeting:**
   - **Introduction to department members, academic structure, and study plan.**
   - **Brief presentation about the specialty, its importance, and specific facilities (dialysis labs, simulators).**
2. **Assignment of a Departmental Academic Mentor:**
   - **To assist them in familiarizing themselves with courses, curricula, and educational standards.**

- **Initial follow-up on lecture performance or clinical/lab activities.**

3. **Practical Field Training (if applicable):**
   - **Field visit to partner dialysis centers or hospitals.**
   - **Training on using specialized equipment and educational devices related to the specialty.**
4. **Integration into Department Plans:**
   - **Distribution of tasks (teaching, research, community service).**
   - **Their participation in department meetings and specialized workshops.**
5. **Initial Evaluation after 3 Months:**
   - **Collect feedback from the mentor and students (if applicable).**
   - **Provide continuous feedback and developmental support.**

Unified Mechanism for Full-Time, Part-Time, and Visiting Faculty:

- **Full-Time: Included in the full program with annual follow-up.**
- **Part-Time: Focus on aspects related to their specific tasks (e.g., teaching quality, assessment).**
- **Visiting Faculty: An intensive program focusing on research or teaching collaboration, linking them to joint projects.**

Expected Outcome:
Effective integration of faculty members into the academic environment, enabling them to perform their duties efficiently and with a sense of belonging, thereby serving the quality of education in the Industrial Kidney Techniques specialty.

Professional Development for Faculty Members

Briefly describe the plan and arrangements for the academic and professional development of faculty members regarding teaching and learning strategies, assessment of learning outcomes, professional development, etc.

Academic and Professional Development Plan for Faculty Members

1. Development of Teaching and Learning Strategies

- **Periodic Workshops:**
  - **On active learning methods, Problem-Based Learning (PBL), blended learning, and the use of technology in education (LMS, Virtual Reality, simulators).**
- **Exchange of Expertise:**
  - **"Peer Teaching" sessions and mutual teaching observations among faculty members.**
- **Teaching Strategies Guide:**
  - **Issuing a unified departmental guide including best practices in the Industrial Kidney Technologies specialty.**

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2. Assessment of Learning Outcomes

- **Building Clear Measurement Indicators:**
  - **For each course, linked to the specified Intended Learning Outcomes (ILOs).**
- **Using Diverse Assessment Tools:**
  - **Tests, projects, clinical/lab reports, practical performance assessment, peer reviews, and self-assessment.**

- **Analysis of Assessment Results and Linking them to Improvement:**
  - **Holding quarterly meetings to review student results, identify strengths and weaknesses, and adjust teaching plans accordingly.**

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3. Continuous Professional Development

- **Individual Development Plan (IDP):**
  - **For each faculty member, determined based on the annual performance review and their needs (research, teaching, administrative).**
- **Accredited Training Courses:**
  - **In cooperation with quality centers or professional development centers inside or outside the university (locally and internationally).**
- **Encouraging Participation in Conferences and Seminars:**
  - **Especially in the fields of dialysis, kidney dialysis, and industrial kidney technologies, to keep pace with scientific and technical updates.**

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4. Research Development and Innovation

- **Support for Preparing Research Projects:**
  - **Through proposal writing workshops, funding for preliminary research, and mentorship from experienced researchers.**
- **Encouraging Scientific Publication:**
  - **Incentives for publishing in classified journals (Scopus, Web of Science), and workshops on publication ethics.**
- **Linking Research with Teaching and Clinical Application:**
  - **To ensure the utilization of research results in improving the quality of education and practical training.**

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5. Evaluation and Continuous Follow-up

- **Self-assessment + Peer assessment + Student evaluation:**
  - **As main tools for measuring teaching effectiveness and development.**
- **Annual review of the individual and departmental plan:**
  - **Aiming for continuous updating and improvement according to national and international standards (e.g., NCAAA, AACN, or healthcare accreditation standards).**
- **Periodic reports to the academic administration:**
  - **To monitor progress and make supportive decisions.**

Targeted Outcome:
A competent, renewed faculty member, capable of employing the latest teaching strategies, able to measure and improve learning outcomes, and an active participant in professional and research development — all serving the quality and distinction of the specialty.

6. Admission Criteria

Admission is centralized and follows the instructions issued by the Ministry of Higher Education. Acceptance rates and the number of students are determined annually by the Ministry.

7. Main Sources of Information about the Program
• University Registration Department • Department Administration • Quality Assurance Administration • The college's official website on the Internet

8. Program Development Plan

1. Current Situation Analysis

- Evaluate the current curriculum and its alignment with national and international standards.
- Review learning outcomes and compare them with labor market needs.
- Survey graduates and employers regarding graduate quality and skills.

2. Updating Academic Content

- Incorporate modern modules: such as Artificial Intelligence in Dialysis, Quality Care Management, and Biosafety.
- Update courses to include the latest technologies and devices used globally.
- Integrate Competency-Based Learning.

3. Enhancing Practical and Clinical Aspects

- Increase practical training hours in accredited dialysis centers.
- Establish advanced Simulation Labs that replicate the actual work environment.
- Activate mandatory field training programs under specialist supervision.

4. Faculty Development

- Train professors in the latest teaching methods and medical technologies.
- Encourage participation in local and international specialized conferences and courses.
- Support scientific research in the field of dialysis technologies.

5. Strengthening External Partnerships

- Sign cooperation agreements with hospitals and dialysis centers for student training.
- Collaborate with international accreditation bodies (e.g., ISN, EDTNA/ERCA).
- Invite healthcare sector experts to deliver lectures or workshops.

6. Quality Assurance and Continuous Evaluation

- Implement a periodic evaluation system for the academic program.
- Measure Key Performance Indicators (KPIs) such as: employment rate, graduate satisfaction, and clinical performance evaluation.
- Conduct regular external reviews of the program.

7. Student Support and Personal Skills Development

- Provide programs to develop soft skills: communication, teamwork, professional ethics.
- Establish an academic and psychological support unit for students.
- Encourage participation in student activities and health volunteering.

8. Digital Transformation

- Develop an online platform for distance education and training.
- Use Virtual/Augmented Reality (VR/AR) simulations in practical training.
- Digitize tests, assessments, and track student progress.

9. Expansion in Postgraduate Studies and Scientific Research

- Launch higher diploma or master's programs in sub-specializations (e.g., Dialysis Unit Management, Advanced Technologies).
- Establish a specialized research center in kidney diseases and alternative treatment technologies.

10. Program Promotion and Marketing

- Highlight program distinction through social media and events.
- Showcase success stories of graduates and their impact in the job market.
- Attract outstanding students through scholarships and incentives.

Program Skills Plan

Program intended Learning Outcomes															
Values				Skills				Knowledge				Fundamental or Mandatory	Course Name	Course code	Year/ Level
C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1				
	√								√	√	√	Fundamental	Generaaaal Physiology	MU05071101	First Academic Year - 2024- 2025 First Semester
	√	√	√		√		√	√	√	√	√	Fundamental	General Histology	MU05071102	
												Fundamental	General Biology	MU05071103	
							√	√	√	√	√	Fundamental	General Chemestry	MU05071104	
												Fundamental	Medical Terminology	MU05071105	
				√	√	√	√		√		√	Fundamental	Computer	MU05071106	
	√								√	√		Fundamental	English Language	MU05071107	
√			√		√			√		√	√	Fundamental	Democracy & Human Rights	MU05071108	
												Fundamental	Clinical	MU05071201	

√						√			√		√		**Physiology**		
√								√		√	√	**أساسي**	**Human Biology**	**MU05071202**	
												أساسي		**MU05071203**	**First Academic Year - 2024- 2025 Second** Semester
	√				√		√	√	√	√	√	**أساسي**	**Basic of Biochemistry**	**MU05071204**	
√		√	√			√		√		√	√	**أساسي**	**Principles of nursing**	**MU05071205**	
	√			√			√		√		√	**مساعده/ إختياري**	**Sport**	**MU05071206**	
		√	√						√	√	√	**مساعدة**	**Arabic Language**	**MU05071207**	
															Second Academic Year 2025 -2026
															Third Academic

															Year22026 -2927
															Fourth Academic Year 2027- 2028

Course Description Form

1. Course Name:
2. Course Code:
3. Semester / Year:
4. Description Preparation Date:
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
7. Course administrator's name (mention all, if more than one name)
8. Course Objectives
9. Teaching and Learning Strategies
10. Course Structure

Week	Hours	Unit or subject name	Learning	Evaluation method	E

			method		v

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	.
Electronic References, Websites	Websites and Online Resources